

## ABSTRACT OF THE DISCLOSURE

The present invention is a technology concerning a reception pointer processing in an SDH transmission system. The objects of the invention are to identify automatically a frame size (frame composition) of the received transmission frame in the SDH (SONET) transmission system and to perform flexibly and rapidly a reception pointer processing corresponding to the frame size. These objects are realized by providing a reception pointer processing apparatus for performing the pointer processing of the transmission frame transmitted by the SDH transmission system, wherein the reception pointer processing apparatus comprises a pointer processing section for executing the required pointer processing of each unit frame contained in the transmission frame, and a frame composition identification section for identifying automatically the frame composition of the transmission frame based on the pointer processing result of the pointer processing section and for providing the identification result to the pointer processing section.

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